

PATENT ABSTRACTS

9/3,K/2 (Item 2 from file: 350) [Links](#)

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0013330458 & *Drawing available*

WPI Acc no: 2003-417853/200339

XRPX Acc No: N2003-333255

Communication network capacity management method involves selecting allocation capacity having maximum weighted combination of expected revenue and risk

Patent Assignee: MITRA D (MITR-I); RAMAKRISHNAN K G (RAMA-I); WANG Q (WANG-I);

LUCENT TECHNOLOGIES INC (LUCE)

Inventor: MITRA D; RAMAKRISHNAN K G; WANG Q

Patent Family (2 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20030035429	A1	20030220	US 2001295614	P	20010604	200339	B
			US 2002163140	A	20020604		
US 7123588	B2	20061017				200668	E

Priority Applications (no., kind, date): US 2001295614 P 20010604; US 2002163140 A 20020604

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 20030035429	A1	EN	12	4	Related to Provisional US 2001295614

Original Publication Data by AuthorityArgentinaPublication No. ...Original Abstracts:framework of the invention also incorporates, as a parameter, the provision of link capacity to other network service providers in the determination of an optimal resource allocation. In a preferred embodiment of the invention, such an optimal resource allocation is determined... ...Claims:plurality of nodes, wherein pairs of said nodes are connected by one or more physical paths, each said path including one or more connected links, and wherein ownership of said links is divided among a plurality of entities...

9/3,K/5 (Item 5 from file: 350) [Links](#)

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0009401435 & Drawing available

WPI Acc no: 1999-337577/199928

XRPX Acc No: N1999-253001

Calling line resold to service provider service routing system

Patent Assignee: BELL SOUTH INTELLECTUAL PROPERTY CORP (BELL-N)

Inventor: BEDINGFIELD J C; HOLT S C; LAPIERRE S R

Patent Family (3 patents, 82 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 1999023808	A1	19990514	WO 1998US23443	A	19981104	199928	B
AU 199913041	A	19990524	AU 199913041	A	19981104	199940	E
EP 1036462	A1	20000920	EP 1998956539	A	19981104	200047	E
			WO 1998US23443	A	19981104		

Priority Applications (no., kind, date): US 199764230 P 19971104

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
WO 1999023808	A1	EN	27	9	
National Designated States,Original	AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG US UZ VN YU ZW				
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW				
AU 199913041	A	EN			Based on OPI patent WO 1999023808
EP 1036462	A1	EN			PCT Application WO 1998US23443
					Based on OPI patent WO 1999023808
Regional Designated States,Original	AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE				

Original Publication Data by AuthorityArgentinaPublication No. ...Original Abstracts:a trunk group. The AIN or non-AIN switch may access a line class code table (160-164) to determine the proper routing information. Calls made from resold lines are routed to the AIN hub... accesses a database (675) containing directory numbers for resold lines and identifiers for competitive service providers. Once the carrier is located, additional tables may be accessed to determine the routing information specified by the carrier for handling the call. The routing information... a trunk group. The AIN or non-AIN switch may access a line class code table (160-164) to determine the proper routing information. Calls made from resold lines are routed to the AIN hub (190). Once the call is... directory numbers for resold lines and identifiers for competitive service providers. Once the carrier is located, additional tables may be accessed to determine the routing information specified by the carrier for handling the call. The routing information is transmitted by the SCP...

9/5/7 (Item 7 from file: 350) [Links](#)

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0008622587 & *Drawing available*

WPI Acc no: 1998-159032/199814

XRFX Acc No: N1998-126455

Automatic access code dialling method - involves providing dialler which establishes connection to network with number provided network with or without access code according to comparison with pre-stored list

Patent Assignee: LUCENT TECHNOLOGIES INC (LUCI)

Inventor: JOHNSON J E

Patent Family (1 patents, 1 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 5719931	A	19980217	US 1995549612	A	19951027	199814	B

Priority Applications (no., kind, date): US 1995549612 A 19951027

Patent Details

Patent Number	Kind	Lang	Pgs	Draw	Filing Notes
US 5719931	A	EN	6	3	

Alerting Abstract US A

The access code dialling method involves providing an access code dialler which establishes a connection between a telephone communication device and a communication network. The connection is automatically broken using the access code dialler. A user entered telephone number received from the telephone communication device is stored in the access code dialler.

At least a portion of the stored number is compared to a list of numbers. The stored number is provided to the communication network without an access code if the list does not contain the portion of the stored number compared to the list of numbers and with an access code if it does. The connection between the telephone communication device and the communication network is automatically re-established using the access code dialler.

ADVANTAGE - Automatically determines alternative service provider using table in memory.

[bad date?]

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0013442290

WPI Acc no: 2003-533480/200351

XRPX Acc No: N2003-423226

Network or organizing method based on multi protocol label exchange virtual private network

Patent Assignee: HUAWEI TECH CO LTD (HUAWEI-N); HUAWEI TECHNOLOGIES CO LTD (HUAWEI-N); XUE G (XUEG-I)

Inventor: SUU G; XUE G

Patent Family (6 patents, 34 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
CN 1414753	A	20030430	CN 2002125817	A	20020805	200351	B
EP 1388978	A1	20040211	EP 2002102573	A	20021113	200411	E
US 20040025054	A1	20040205	US 2003393931	A	20030320	200411	E
JP 2004072708	A	20040304	JP 2002361535	A	20021212	200417	E
AU 2002320665	A1	20040219	AU 2002320665	A	20021220	200445	E
CN 1183726	C	20050105				200620	E

Priority Applications (no., kind, date): CN 2002125817 A 20020805

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
CN 1414753	A	ZH		0	
EP 1388978	A1	EN			
Regional Designated States,Original	AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI SK TR				
JP 2004072708	A	JA	9		

...Original Titles:MPLS/BGP VPN gateway-based networking method Alerting Abstract ...exchange between the network of local internet inserting service person (ISP) and one level higher ISP network or other ISP network, connecting MPLS VPN gate way with the local ISP network according to the network technical conformation, connecting MPLS VPN gate way with one level higher or other ISP network, and at the same time, connecting MPLS VPN gate way with the equipment of... Original Publication Data by AuthorityArgentinaPublication No. ...Original Abstracts:a local Internet Service Provider (ISP) network and a superior Internet Service Provider (ISP) network/other Internet Service Provider (ISP) network, connect the Multi Protocol Label Switching Virtual Private Network (MPLS VPN) gateway with the local Internet Service Provider (ISP) network and the superior Internet Service Provider (ISP) network/other Internet Service Provider (ISP) network and at the same time connect the Multi Protocol Label Switching Virtual Private Network (MPLS VPN) gateway.... The present invention discloses a MPLS/BGP VPN gateway-based network method comprising: interposing one or more Multi Protocol Label Switching Virtual Private Network (MPLS VPN) gateways between a first ISP network and a second ISP network, connecting the MPLS/BGP VPN gateway with the first ISP network and the second ISP network and at the same time connect the MPLS/BGP VPN gateway with a Custom Edge Router (CE) in the first ISP subscriber's network, and activating protocol transmissions on the MPLS/BGP VPN gateway to provide MPLS/BGP VPN services. The present invention enables ISPs to provide MPLS/BGP VPN

services quickly with low investment and make use of conventional network without comprehensive reconstruction, which enhances competitive power and protect conventional investment. ...Claims:a local Internet Service Provider (ISP) network and a superior Internet Service Provider (ISP) network/other Internet Service Provider (ISP) network;step 2: connecting the Multi Protocol Label Switching Virtual Private Network (MPLS VPN) gateway with the local Internet Service Provider (ISP) network and the superior Internet Service Provider (ISP) network/other Internet Service Provider (ISP) network and connecting the Multi Protocol Label Switching Virtual Private Network (MPLS VPN) gateway with a Custom Edge Router (CE... ... What is claimed is:1. A MPLS/BGP VPN gateway-based networking method enabling private communications between subscribers of a first ISP network and subscribers of a second ISP network, comprising the steps:i) interposing at least one MPLS/BGP VPN gateway between the first ISP network and the second ISP network to construct a virtual private network (VPN) with Multiprotocol Label Switching (MPLS) capabilities using Border Gateway Protocol (BGP) wherein the MPLS/BGP VPN gateway provides MPLS/BGP VPN services;ii) connecting the MPLS/BGP VPN gateway with the first ISP network and the second ISP network;iii) connecting the MPLS/BGP VPN gateway to a CE in the subscriber's network;iv) activating protocol transmissions on the MPLS/BGP VPN gateway to provide MPLS/BGP VPN services.

10/3,K/3 (Item 3 from file: 350) [Links](#)

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0012459471 & *Drawing available*

WPI Acc no: 2002-405434/200243

Related WPI Acc No: 2002-372317; 2002-372318; 2002-372321; 2002-372322; 2002-383519; 2002-435588; 2003-646412; 2004-774509

XRPX Acc No: N2002-318295

Performance and cost optimization in inter-network allowing performance data about routes to be exchanged between routers

Patent Assignee: BALDONADO O C (BALD-I); FINN S P (FINN-I); KARAM M J (KARA-I); LLOYD M A (LLOY-I); MADAN H S (MADA-I); MCGUIRE J G (MCGU-I); ROUTESCIENCE TECHNOLOGIES INC (ROUT-N); VILLAYERDE J P (VILL-I)

Inventor: BALDONADO O C; FINN S P; KARAM M J; LLOYD M A; MADAN H S; MCGUIRE J G; VILLAYERDE J M P; VILLAYERDE J P

Patent Family (5 patents, 96 & countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2002033894	A2	20020425	WO 2001US32312	A	20011017	200243	B
US 20020078223	A1	20020620	US 2000241450	P	20001017	200244	E
			US 2001275206	P	20010312		
			US 2001923924	A	20010806		
AU 200213287	A	20020429	AU 200213287	A	20011017	200255	E
EP 1356634	A2	20031029	EP 2001981657	A	20011017	200379	E
			WO 2001US32312	A	20011017		
AU 2002213287	A8	20051013	AU 2002213287	A	20011017	200611	E

Priority Applications (no., kind, date): US 2000241450 P 20001017; US 2001275206 P 20010312; US 2001903423 A 20010710; US 2001903441 A 20010710; US 2001923924 A 20010806

Patent Details

Patent Number	Kind	Lang	Pgs	Draw	Filing Notes	
WO 2002033894	A2	EN	40	6		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
Regional Designated States,Original	AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW					
US 20020078223	A1	EN			Related to Provisional	US 2000241450
					Related to Provisional	US 2001275206
AU 200213287	A	EN			Based on OPI patent	WO 2002033894
EP 1356634	A2	EN			PCT Application	WO 2001US32312
					Based on OPI patent	WO 2002033894
Regional Designated States,Original	AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR					
AU 2002213287	A8	EN			Based on OPI patent	WO 2002033894

Alerting Abstract ... USE - For supporting routing intelligence (Stationed at ISP, government organization, university, or other organization supporting a sub-network coupled to an inter-network) for evaluating routing paths based on... Original Publication Data by AuthorityArgentinaPublication No. ...Original Abstracts:effecting any changes to routing. Routing decisions may be injected to the edge routers via BGP updates. The devices may be stationed at the premises of a multihomed organization, such as an enterprise, ISP, government organization, university, or other organization supporting a sub-network coupled to an internetwork. In other embodiments, the routing intelligence... .. effecting any changes to routing. Routing decisions may be injected to the edge routers via BGP updates. The devices may be stationed at the premises of a multihomed organization, such as an enterprise, ISP, government organization, university, or other organization... .. effecting any changes to routing. Routing decisions may be injected to the edge routers via BGP updates. The devices may be stationed at the premises of a multihomed organization, such as an enterprise, ISP, government organization, university, or other organization supporting a sub-network coupled to an internetwork. In other embodiments, the routing intelligence comprises processes executed on a router... .. de routage peuvent être injectées dans les routeurs de bordure via des mises à jour BGP. Les dispositifs peuvent être implantés dans les locaux d'une organisation à plusieurs sièges, telle qu'une entreprise, un fournisseur de services Internet, une organisation gouvernementale, une université, ou une autre organisation supportant un...

FULL-TEXT PATENTS

[your application]

15/3K/10 (Item 5 from file: 349) [Links](#)

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PCT FULLTEXT

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01098243

A METHOD AND A SYSTEM FOR PERFORMING CONNECTIVITY EVALUATIONS ON
DATA COMMUNICATION NETWORKS AND RELATED INFORMATION TECHNOLOGY
PRODUCT

PROCEDE ET SYSTEME POUR EVALUATIONS DE CONNECTIVITE SUR RESEAUX DE
TRANSMISSION DE DONNEES, ET PRODUIT DE TECHNOLOGIE DE L'INFORMATION ASSOCIE

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	Country	Number	Kind	Date
Patent	WO	200421650	A1	20040311
Application	WO	2003EP9692		20030901
Priorities	IT	2002TO762		20020902

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IT; LU; MC; NL;
PT; RO; SE; SI; SK; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW;
ML; MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZM; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English
Filing Language: English
Fulltext word count: 6800

Detailed Description:

...according to the invention makes resort
to the databases essentially formed by the so called BGP
tables and/or by similar tables, generically denoted by
BGP11 ..., BGPm, in Figure 2. These... ..derived from
subjects toward which the connectivity evaluation must
be mainly performed (i.e. the candidate ISPs 14) in
other terms they may be still derived from the ISP
suppliers 12.

It is therefore evident... ..the solution according to the invention can be
applied by using either the strictly defined BGP tables
or by tables structurally similar or functionally
equivalent to the BGP tables under question: for this
reason in the claims which follow, reference will be
generally... ..by
102, 'the system S carries out the extraction of the
information contained in the BGP tables denoted by the
references BGP11 to BGPm1.

15/3K/16 (Item 11 from file: 349) [Links](#)

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00856131

COMMUNICATION SYSTEM AND METHOD
SYSTEME ET PROCEDE DE COMMUNICATION

Patent Applicant/Patent Assignee:

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	Country	Number	Kind	Date
Patent	WO	200189142	A2-A3	20011122
Application	WO	2001GB2112		20010515
Priorities	US	2000204341		20000515
	GB	200028113		20001117

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Publication Language: English

Filing Language: English

Fulltext word count: 22895

Detailed Description:

...ISP or major network is slightly more complex.

The communication between AS networks is BGP. Each network would take its own set of connections to other ISP's through peering and transit links, and build a combined BGP route table which is the best routes from all the networks. This situation is not...

NPL

11/5/2 (Item 1 from file: 34) [Links](#)

Fulltext available through: [STIC Full Text Retrieval Options](#)

SciSearch(R) Cited Ref Sci

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09905580 Genuine Article#: 463LJ Number of References: 6

Direction of next generation Internet eXchanges

Author: Nakagawa I (REPRINT) ; Hayashi E; Takahashi T

Corporate Source: INTEC Web & Genome Informat Corp,Toyama 9300804/Japan/ (REPRINT); INTEC

Web & Genome Informat Corp,Toyama 9300804/Japan/; Reitaku Univ,Kashiwa/Chiba 2778686/Japan/

Journal: IEICE TRANSACTIONS ON COMMUNICATIONS , 2001 , V E84B , N8 (AUG) , P 1989-1995

ISSN: 0916-8516 Publication date: 20010800

Publisher: IEICE-INST ELECTRONICS INFORMATION COMMUNICATIONS ENG , KIKAI-SHINKO-KAIKAN BLDG MINATO-KU SHIBAKOEN 3 CHOME, TOKYO, 105, JAPAN

Language: English Document Type: ARTICLE

Geographic Location: Japan

Journal Subject Category: ENGINEERING, ELECTRICAL & ELECTRONIC; TELECOMMUNICATIONS

Abstract: In this article, we survey current and next generation IX (Internet eXchange) technologies. An IX is a mechanism to interconnect many networks to each other. In other words, an ISP can establish 'peerings' with other ISPs by connecting their routers into IXes. First, we describe the basic IX model, including a policy model, called the 'bilateral' model, which allows participating ISPs to control routing policy and traffic on a 'peer' basis. Next, we classify current IX architectures from a technical point of view and discuss issues of current IXes. In the latter portion of this article, we describe next generation IX technologies, which achieve new features for IXes, such as: enabling larger volume traffic exchange with optical technology, providing virtual private peerings, migrating data-link media to participate into an IX, and exchanging traffic over widely distributed areas. We survey cutting-edge technologies for next generation IXes, and discuss the future of IX technology.

Descriptors--Author Keywords: Internet eXchange ; interconnection ; peering ; BGP 4

Cited References:

ASHWOODSMITH P, 2001, IETP INTERNET DRAFT

BLANCHET M, 2001, IETF INTERNET DRAFT

HUSTON G, 1999, V2, INTERNET PROTOCOL J

MANNING B, EXCHANGE POINT INFOR

REKHETER Y, 1995, BORDER GATEWAY PROTO

ROSEN E, 1999, IETF INTERNET DRAFT

14/5/2 (Item 1 from file: 2) [Links](#)

Fulltext available through: [STIC Full Text Retrieval Options](#)

INSPEC

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05887136 INSPEC Abstract Number: B9504-6150P-010, C9504-5630-006

Title: Routing arbiter architecture

Author Estrin, D.; Postel, J.; Rekhter, Y.

Author Affiliation: Dept. of Comput. Sci., Univ. of Southern California, Los Angeles, CA, USA

Journal: *Connections* vol.8, no.8 p. 2-7

Publication Date: Aug. 1994 Country of Publication: USA

ISSN: 0894-5926

Language: English Document Type: Journal Paper (JP)

Treatment: Practical (P)

Abstract: As the Internet has evolved and grown, a key element has been the provision of stable routing information. An essential element of this has been the configured networks information assembled by MERIT and used in the NSFNET backbone routers. This configured networks information is used to control the dynamic routing information exchange among the NSFNET backbone and the attached networks. The Internet is entering a new phase with a new architecture brought about by changes in NSF support. In the new architecture, the provision of stable routing information will be much more complex. A new routing arbiter is to be developed to process the topology, connectivity, and routing policy information to create and distribute a stable master routing table. In addition, the routing arbiter will plan for, develop and deploy new routing services, such as multicast and adaptive alternate path routing. The new NSF architecture will consist of: a very high-speed backbone service (the vBNS); other network service providers (NSPs), including both the equivalent of today's regionals as well as other commercial service providers; network attachment points, whereby NSPs connect to the vBNS and to one another; stub networks, which will connect to their choice of NSPs; and the routing arbiter, which will manage the routing process for the Internet. In this article, we describe the architecture of the routing arbiter. (11 Refs)

Subfile: B C

Descriptors: data communication equipment; Internet; internetworking; network topology; telecommunication network routing

Identifiers: routing arbiter architecture; Internet; stable routing information; configured networks information; NSFNET backbone routers; dynamic routing information exchange; network topology; connectivity; routing policy information; stable master routing table; routing services; multicast; adaptive alternate path routing; NSF architecture; vBNS; very high-speed backbone service; network service providers; network attachment points; stub networks

Class Codes: B6150P (Communication network design and planning); B6210L (Computer communications); C5630 (Networking equipment); C5620W (Other computer networks)

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